

METHOD OF AND APPARATUS FOR MANUFACTURING PLASTIC LENS

Publication number: JP58140222 (A)

Publication date: 1983-08-19

Inventor(s): TAKEYA NORIAKI; ASANO HIDEKI; UNNO MORIMICHI; NARISAWA TSUNEO; NEMOTO MASANORI

Applicant(s): HITACHI LTD

Classification:

- **International:** B29C45/00; B29C39/00; B29C39/22; B29C45/56; B29C61/00; B29D11/00; B29C45/00; B29C39/00; B29C39/22; B29C45/56; B29C61/00; B29D11/00; (IPC1-7): B29D11/00

- **European:** B29C45/56E; B29D11/00C

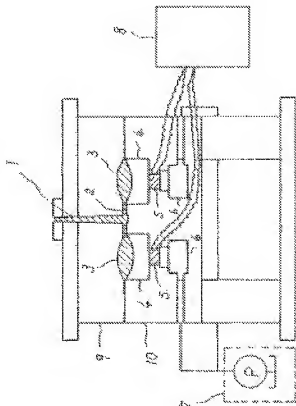
Application number: JP19820022672 19820217

Priority number(s): JP19820022672 19820217

Abstract of JP 58140222 (A)

PURPOSE: To obtain a plastic lens excellent in optical characteristic without distortion even using a high polymer material with a high refractive index and a high photoelastic sensitivity by molding a high polymer material flowed into a die with the application of an ultrasonic vibration.

CONSTITUTION: A mobile frame 4 in a cavity 3 and an ultrasonic wave generator 5 in contact therewith are provided inside injection molding dies 9 and 10 and a piston 6 to pressurize it on the mobile frame 4. Outside the dies, an ultrasonic wave oscillation circuit 8 is arranged in the ultrasonic wave generator 5 and a hydraulic circuit 7 for the piston 6 to drive it. An ultrasonic vibration is applied to a high polymer material in the cavity 3 through the mobile frame 4 to the inflow thereof into the die to the solidification thereof after the filling thereof.; The use of the high polymer material with a refractive index of more than 1.5 and a photoelastic sensitivity of more than 0.1fr.mm./kg, for example, polystyrene, polycarbonate, acrylonitril styrene and methylmethacrylatestyrene is particularly effective.



Data supplied from the **esp@cenet** database — Worldwide